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PATENT ABSTRACTS OF JAPAN

(11)Publication number : **62-089864**

(43)Date of publication of
application : **24.04.1987**

(51)Int.Cl.

C23C 14/36

H01L 21/203

H01L 21/285

H01L 21/31

(21)Application
number :

61-152502

(71)

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(22)Date of filing :

27.06.1986

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Priority
number :

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Priority
date :

27.06.1985

Priority
country :

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(54) **MAGNETRON SPUTTERING DEVICE**

(57)Abstract:

PURPOSE: To improve the utilizing efficiency of a target, film thickness distribution and film forming speed by mounting plural pieces of magnet pairs of a cathode part eccentrically from the center of the target toward the outside peripheral direction.

CONSTITUTION: The magnetron type cathode and substrate are provided in a vacuum chamber. The plural magnet pairs 23 are disposed at equal intervals to the cathode 21 on the same pitch circumference concentric with the central axis of the target 25. The magnet pairs 23 are magnet S poles (or N pole) having a sectorial, triangular or trapezoidal sectional shape and the N poles (or S poles) disposed at equal intervals on the outside periphery thereof. The magnets are rotated around the target 25.

